

FIGURE 1

09642024-082801

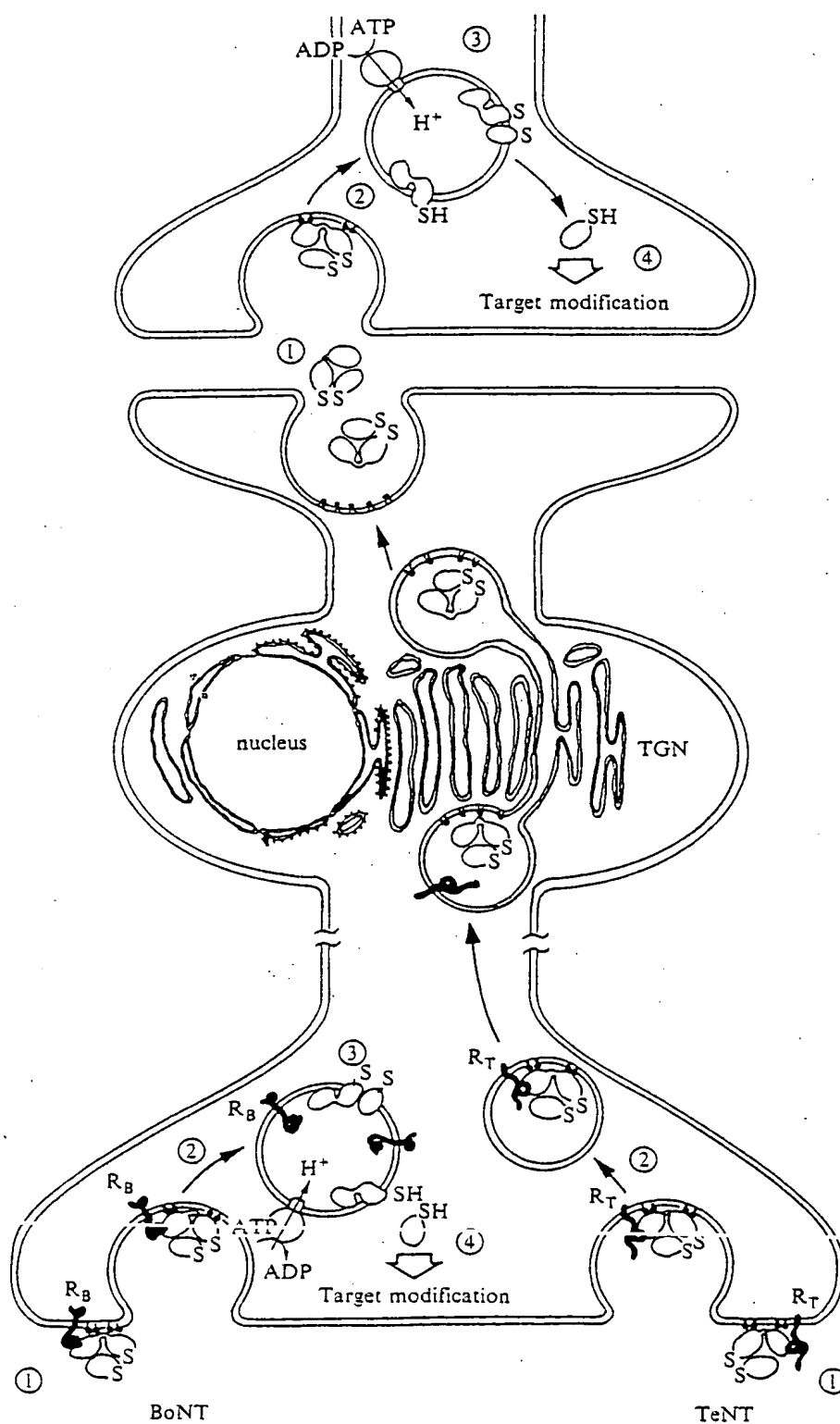


FIGURE 2

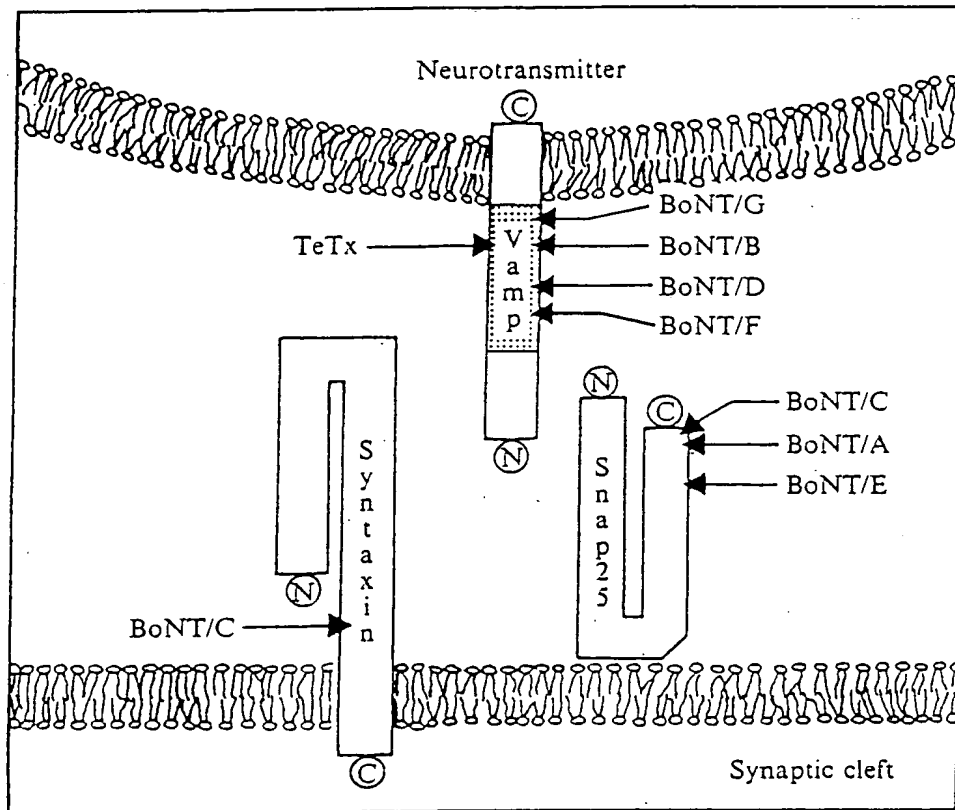
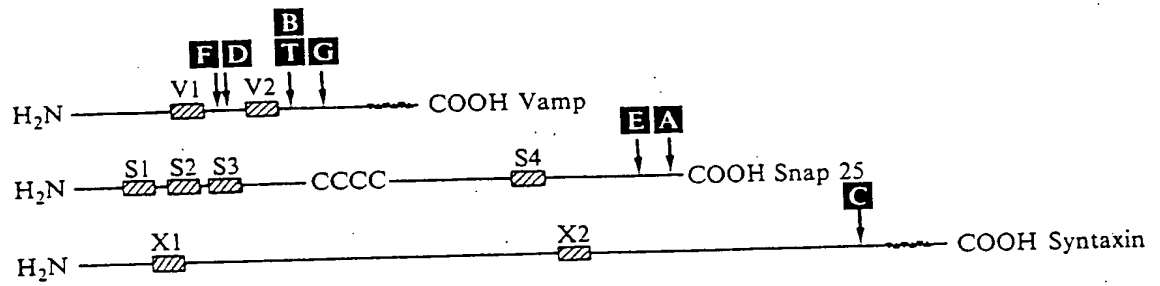


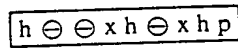
FIGURE 3

0942024.032801  
T08280.42024660

A.



B.



C.

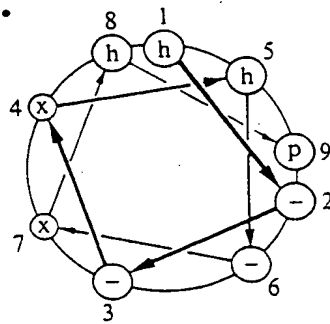


FIGURE 4

Inventors: Steward et al.  
Attorney Docket: P-AR 4803

1 75  
SNAP-25 Human (1) -----MADADMRNELEEMORRADQIADDESLESTRRMLOVVEESKADGIRTLVMDLDEQGEQLERHEEGMDQIN  
SNAP-25 Mouse (1) -----MADADMRNELEEMORRADQIADDESLESTRRMLOVVEESKADGIRTLVMDLDEQGEQLERHEEGMDQIN  
SNAP-25 Drosophila (1) MPADPSEVAPQVPKTELEELQINVAQVADDESLESTRRMLOVVEESKADGIRTLVMDLDEQGEQLERHEEGMDQIN  
SNAP-25 Goldfish (1) -----MADADMRNELEEMORRADQIADDESLESTRRMLOVVEESKADGIRTLVMDLDEQGEQLERHEEGMDQIN  
SNAP-25 Sea Urchin (1) -----MEDQNDMMNRSELEEIQMSNMOTDESLESTRRMLOVVAEESQDMGIKTLVMDLDEQGEQLERHEEGMDQIN  
SNAP-25 Chicken (1) -----MADADMRNELEEMORRADQIADDESLESTRRMLOVVEESKADGIRTLVMDLDEQGEQLERHEEGMDQIN

76 150  
SNAP-25 Human (69) KDMKEAEKNI PDLGKFCGLGVCPEN --- KKKSSDAYKKKAWGNNOGDGVAS - QPARVWDEREOMATSGGFI RRVIN  
SNAP-25 Mouse (69) KDMKEAEKNI PDLGKFCGLGVCPEN --- KKKSSDAYKKKAWGNNOGDGVAS - QPARVWDEREOMATSGGFI RRVIN  
SNAP-25 Drosophila (76) ADMREAEKNI SGMKCCGIGVLPENKQSFPKEDG --- TKGNDDGKVNN QPARVWDEREOMATSGGFI RRVIN  
SNAP-25 Goldfish (69) KDMKEAEKNI PDLGKFCGLGVCPEN --- KKKGG --- GQSGNNOGDGVSS - QPARVWDEREOMATSGGFI RRVIN  
SNAP-25 Sea Urchin (71) TDMREAEKNI LGLEKCCGIGVGPWKLGKGNFEKGDYKKKTWKGNDDGKVNSH QPARVWDEREOMATSGGFI RRVIN  
SNAP-25 Chicken (69) QDMKEAEKNI KDLGKCCGLFIQCPEN --- KKKSSDAYKKKAWGNNOGDGVAS - QPARVWDEREOMATSGGFI RRVIN

151 225  
SNAP-25 Human (140) DARENEMDENLEQVSGIIGNLRHVALDMGNEIDTQNRQIDRIMEKADSNKTRIDEAN --- ORATKMLGSG ---  
SNAP-25 Mouse (40) DARENEMDENLEQVSGIIGNLRHVALDMGNEIDTQNRQIDRIMEKADSNKTRIDEAN --- ORATKMLGSG ---  
SNAP-25 Drosophila (48) DAREDEMENQVNTMTIGNLRHVALDMGSELENTQNRQIDRIMEKADSNKTRIDEAN --- ORAHQLK ---  
SNAP-25 Goldfish (37) DARENEMDENLEQVSGIIGNLRHVALDMGNEIDTQNRQIDRIMEKADSNKTRIDEAN --- ORATKMLGSG ---  
SNAP-25 Sea Urchin (46) DAREDEMENLEQVSSHVIGNLRHVALDMQSEIQAQNSQVGEITSKAESNEGRINSAD --- KRAKNIERNK ---  
SNAP-25 Chicken (140) DARENEMDENLEQVSGIIGNLRHVALDMGNEIDTQNRQIDRIMEKADSNKTRIDEAN --- ORATKMLGSG ---

226 260  
SNAP-25 Human (207) -----  
SNAP-25 Mouse (207) -----  
SNAP-25 Drosophila (213) -----  
SNAP-25 Goldfish (204) -----  
SNAP-25 Sea Urchin (213) -----  
SNAP-25 Chicken (215) LMLSQRAVPSCFYHGIYLLGLHTCTYQPHCKCCPV

FIGURE 5

**09-06-2017**

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Attorney Docket: P-AR 4803

[illegible]

	76		123
VAMP-1 HUMAN (75)	GASQFETSAAKLKRKYWKN	CKMMI	MEGLI
VAMP-2 HUMAN (73)	GASQFETSAAKLKRKYWKN	CKMMI	ELGV
VAMP-2 MOUSE (73)	GASQFETSAAKLKRKYWKN	CKMMI	ELGV
VAMP Bovine (73)	GASQFETSAAKLKRKYWKN	CKMMI	ELGV
VAMP-2 Frog (71)	GASQFETSAAKLKRKYWKN	CKMMI	ELGV
VAMP Sea urchin (57)	GASQFETINAGLKRKYWKN	CKMMI	ELGV

## FIGURE 6

1  
Syntaxin 1A human (1) -MKDRTOELRTAK-DSDDDDVAVTVD-RDRFMDFFEQVEEIRGFIDKIAENVEEVKVKHSAIILASPNDEKTK  
Syntaxin 1B2 human (1) -MKDRTOELRSK-DSDDDEEM-VHVD-RDHFMDEFFEQVEEIRGCEKLSNVEQVKKHSAIILASPNDEKTK  
Syntaxin 1A mouse (1) -MKDRTOELRTAK-DSDDDDVAVTVD-RDRFMDFFEQVEEIRGFIDKIAENVEEVKVKHSAIILASPNDEKTK  
Syntaxin 1a drosophila (1) MTKDLAALHAAQSDDEETFAVAVDGHDSYMDFFAQQVEEIRGMIDKVDQNVVEEVKVKHSAIILASPNDEKTK  
Syntaxin A C. elegans (1) MTKDLALKAQSEDEQDDMHMDTG-NAQYMEFFEQVEEIRGSVDIANNVVEEVKVKHSAIILASPNDEKTK  
Syntaxin Sea urchin (1) -MRDLGSLKRNE-EDVGPEVAVNVE-SEKFMEEFFEQVEEVRNNTDKISKNVDEVKVKHSDIILASPNDEKTK

75  
76  
Syntaxin 1A human (73) ETEEMSDIKKTANKVRSLKLSIEQSIEQEEGENRSSADLRIRKTOHSTLSRKFEVVMSEYNATQSDYRERCKG  
Syntaxin 1B2 human (72) QETEDTADIKKTANKVRSLKLSIEQSIEQEEGENRSSADLRIRKTOHSTLSRKFEVVMSEYNATQSDYRERCKD  
Syntaxin 1A mouse (73) ETEEMSDIKKTANKVRSLKLSIEQSIEQEEGENRSSADLRIRKTOHSTLSRKFEVVMSEYNATQSDYRERCKG  
Syntaxin 1a drosophila (76) QETEDTADIKKTANKVRSLKLSIEQSIEQEEQONASSADLRIRKTOHSTLSRKFEVVMSEYNATQSDYRERCKG  
Syntaxin A C. elegans (75) ETEEMAVIKKTANKVRSLKLSIEQSIEQEEQONASSADLRIRKTOHSTLSRKFEVVMSEYNATQSDYRERCKG  
Syntaxin Sea urchin (73) ETEEMSDIKKTANKVRSLKLSIEQSIEQEEQONASSADLRIRKTOHSTLSRKFEVVMSEYNATQSDYRERCKG

151  
Syntaxin 1A human (148) RIOROLEITGRITTTSEEDMLESNPAIFASGIMDSSISKQALSEIETRHSSEIKLENSIRELHDMFMDMAML  
Syntaxin 1B2 human (147) RIOROLEITGRITTTSEEDMLESNPAIFASGIMDSSISKQALSEIETRHSSEIKLENSIRELHDMFMDMAML  
Syntaxin 1A mouse (148) RIOROLEITGRITTTSEEDMLESNPAIFASGIMDSSISKQALSEIETRHSSEIKLENSIRELHDMFMDMAML  
Syntaxin 1a drosophila (151) RIOROLEITGRITTTSEEDMLESNPAIFASGIMDSSISKQALSEIETRHSSEIKLENSIRELHDMFMDMAML  
Syntaxin A C. elegans (149) RIOROLDIACKQVGDEDEEMLESNPAIFASGIMDSSISKQALSEIETRHSSEIKLENSIRELHDMFMDMAML  
Syntaxin Sea urchin (148) RIOROLEITGRITTTSEEDMLESNPAIFASGIMDSSISKQALSEIETRHSSEIKLENSIRELHDMFMDMAML

226  
Syntaxin 1A human (223) VESQCEMIDRIEYNVEHVDYVERAVSDTKKAVRQSKARRKKIMILICCVILGIVIASTVGGIFA--  
Syntaxin 1B2 human (222) VESQCEMIDRIEYNVEHVDYVERAVSDTKKAVRQSKARRKKIMILICCVILGIVIASTVGGIFA--  
Syntaxin 1A mouse (223) VESQCEMIDRIEYNVEHVDYVERAVSDTKKAVRQSKARRKKIMILICCVILGIVIASTVGGIFA--  
Syntaxin 1a drosophila (226) VESQCEMIDRIEYNVEHVDYVERAVSDTKKAVRQSKARRKKIMILICCVILGIVIASTVGGIFA--  
Syntaxin A C. elegans (224) VESQCEMIDRIEYNVEHVDYVERAVSDTKKAVRQSKARRKKIMILICCVILGIVIASTVGGIFA--  
Syntaxin Sea urchin (223) VESQCEMIDRIEYNVEHVDYVERAVSDTKKAVRQSKARRKKIMILICCVILGIVIASTVGGIFA--

FIGURE 7